

## *Logistics Vehicle System Replacement (LVSR) Program*

### *DESCRIPTION*

The Logistics Vehicle System Replacement (LVSR) is the Marine Corps heavy tactical wheeled vehicle fleet replacement. The LVSR is comprised of five modules, a front power unit (FPU), three interchangeable rear body units (RBU), and a tandem tow trailer. When the front power unit is coupled to a rear body unit, it forms an integral all-wheel drive vehicle. Through interchangeable rear body units, the LVSR will fulfill various heavy lift missions including throughput of bulk fuel and water, ammunition, engineer equipment, standardized containers, and palletized/breakbulk cargo and wrecker/recovery missions. The



LVSR Cargo RBU is self-loading/unloading. The LVSR also provides the Marine Corps only tactical tractor for towing semi-trailers. The LVSR will incorporate state-of-the-art automotive and electronic technology, featuring advances in electronically controlled power trains, RAM-D and asset tracking. An integral ancillary item of equipment to the LVSR is the Flatrack and associated modules. They provide the LVSR a demountable platform which can accommodate 33,000 lbs of palletized, breakbulk or containerized cargo, a 3500-gallon Bulk Fuel Tankrack, a 3000-gallon Fuel Distribution Flatrack with a dispensing pump, and a 2900-gallon

Potable Water Distribution Flatrack with a dispensing pump. Flatracks are 20 foot long by 8 foot wide, and are ISO certified for transport and have integral twist locks and ISO corners.

PROCUREMENT PROFILE:	FY00	FY01
<i>Quantity:</i>	<i>0</i>	<i>0</i>

#### *OPERATIONAL IMPACT*

The LVSR will address the current fleet deficiencies in off-road mobility, payload capacity, available power, ride quality, stability and braking. It will provide the Marine Corps heavy lift capability for transporting bulk fuel and water, ammunition, ribbon bridges & components, bridge boats, standardized containers, bulk, breakbulk and palletized cargo (on flatracks), engineer equipment and provide wrecker/recovery capability. The Flatrack enhances distribution and speeds resupply, integral to the LVSR's role as a logistics throughput system in OMFTS and STOM, by allowing staging of bulk liquids, ammunition, and other supplies without dedicating a vehicle remain on site. The LVSR brings commonality between the Marine Corps and NATO and the U. S. Army's Palletized Load System in the types of loads that can be carried by Heavy Tactical Vehicles.

#### *PROGRAM STATUS*

The LVSR Program is in Phase 0, Concept Exploration. Technology Demonstrators have been fabricated and Modeling & Simulation/Virtual Prototyping efforts have begun. The Technology Demonstrators will undergo Developmental Testing and an Early Operational Analysis in FY00. The LVSR will begin fielding in FY06, and will reach FOC in FY09.

#### *DEVELOPER/MANUFACTURER*

TBD